

Patent Claims

1. Support device (1) for cultivating Macro organisms (31) in marine waters with at least one ring structure (2) which is arranged below the surface (3) of the water between at least one buoyancy means (4) and an anchoring device (5) and which is provided within a closed external ring (13) with a cobwebby cultivation unit (19) of radial support lines (20) and azimuthal cultivation lines (21) characterized by the fact
- that the external ring (13) is connected by an upper crow's foot (7) to a central buoyancy means and by a lower crow's foot (8) to an anchoring device (5), each crow's foot (7, 8) being constructed of a central crow's foot ring (9, 10) and a plurality crow's foot ropes (11, 12) uniformly attached to the circumference of the external ring (4) and extending upwardly and downwardly from common connecting points (14), that the radial support lines (20) are connected under tension to a central internal ring (23) and that the central Buoyancy means (4) is connected directly to the anchoring device (5) by at least one central support rope (6) extending through the central internal ring (23) and connected to the two crow's foot rings (9, 10).
2. Support device (1) according to claim 1, characterized by the fact that each common connecting point (14) at the external ring (13) is formed by a rigid sleeve (15) which is provided with an eyelet (18, 22) for each of an upper and a lower crow's foot rope (11, 12) as well as for a radial support line (20).
3. Support device (1) according to claim 1 or 2, characterized by the fact that the central internal ring (23) is provided with an eyelet (29) for each radial support line (20).

4. Support device (1) according to claim 2 and 3,
characterized by the fact
that each radial support line (20) is connected to an eyelet (22) of a sleeve
(15) on the external ring (13).

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5. Support device (1) according to claim 2 and 3,
characterized by the fact
that each radial support line (20) is connected to an eyelet (29) of the central
internal ring (23) by a tensioning element (24).

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6. Support device (1) according to one of claims 1 to 5,
characterized by the fact
that the central crow's foot ring (9) of the upper crow's foot (7) directly
engages the central buoyancy means (4).

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7. Support device according to one of claims 1 to 7,
characterized by the fact
that the central crow's foot ring (9) engages the central buoyancy means (4)
by way of an interposed sinking line of a definable length.

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8. Support device according to one of claims 1 to 7,
characterized by the fact
that the central crow's foot ring (10) of the lower crow's foot (8) engages the
anchoring device (5) by way of a freely rotatable rotary coupling (32) on an
25 anchor chain (16) connected to an anchor stone (17).

9. Support device according to one of claims 1 to 8,
characterized by the fact
that all of the upper crow's foot ropes (11) are of the same length.

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10. Support device according to one of claims 1 to 9,
characterized by the fact

that all rope, line and chain connections are formed by eyelets (18) at the ends of the ropes, lines and chains.

11. Support device according to one of claims 1 to 10,
5 characterized by the fact
that the external ring (13) consists of a steel cable (25) extending in a plastic tube (26).

12. Support device according to one of claims 1 to 11,
10 characterized by the fact
that the central buoyancy means (4) is provided with an eyelet (28) for hoisting and lowering the support device (1).

13. Support device according to one of claims 1 to 12,
15 characterized by the fact that a plurality of identical ring structures are connected together.

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